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NOTICE OF ALLOWANCE AND FEE(S) DUE

22801

7590

06/27/2008

LEE & HAYES PLLC 421 W RIVERSIDE AVENUE SUITE 500 SPOKANE, WA 99201 EXAMINER

HO, BINH VAN

ART UNIT PAPER NUMBER

2163

DATE MAILED: 06/27/2008

	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
Ī	10/776,664	02/10/2004	Shrinivas Ashwin	MS1-3545US	3391

TITLE OF INVENTION: SYSTEMS AND METHODS FOR A LARGE OBJECT INFRASTRUCTURE IN A DATABASE SYSTEM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	09/29/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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If the SMALL ENTITY is shown as NO:

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IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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or <u>Fax</u> (571)-273-2885

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								(Signature)
								(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	OR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/776,664	02/10/2004		Shrinivas Ashwin		•		MS1-3545US	3391
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EXAM		ART UNIT	CLASS-SUBCLASS					
HO, BIN		2163	707-200000					
. Change of correspondence address or indication of "Fee Address" (37 :FR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			or agents OR, altern (2) the name of a si registered attorney of 2 registered patent a	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.				
PLEASE NOTE: Unl	less an assignee is identi h in 37 CFR 3.11. Comp	A TO BE PRINTED ON The fied below, no assignee eletion of this form is NO	data will appear on the	e pate an as	ent. If an assigne signment.			ocument has been filed for
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10/776,664	02/10/2004	Shrinivas Ashwin	MS1-3545US	3391			
22801 75	22801 7590 06/27/2008			EXAMINER			
LEE & HAYES	PLLC	HO, BINH VAN					
	E AVENUE SUITE 50	ART UNIT	PAPER NUMBER				
SPOKANE, WA 99201			2163				
			DATE MAILED: 06/27/200	8			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 282 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 282 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)	
		ASHWIN ET AL.	
Notice of Allowability	10/776,664 Examiner	ASHWIN ET AL. Art Unit	
	BINILLY HO	0400	
	BINH V. HO	2163	
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject t	plication. If not included n will be mailed in due course. THIS	
1. This communication is responsive to <u>03/26/2008</u> .			
2. X The allowed claim(s) is/are <u>1,5-6,10-11,15-16,20-21,25-26</u>	<u>,30</u> .		
 3. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 			
2. Certified copies of the priority documents have	• • • • • • • • • • • • • • • • • • • •		
3. Copies of the certified copies of the priority do	cuments have been received in this	national stage application from the	
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm	IENT of this application.		
INFORMAL PATENT APPLICATION (PTO-152) which give			
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) ☐ including changes required by the Notice of Draftspers	•	-948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the 0	Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal F	Patent Application	
 Notice of Preferences Gled (110-032) DNotice of Draftperson's Patent Drawing Review (PTO-948) 	6. ☐ Interview Summary	• •	
3. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Da 7. ⊠ Examiner's Amendi	te	
Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. ⊠ Examiner's Stateme	ent of Reasons for Allowance	
of Biological Material	9.		
	/Wilson Lee/ Primary Examiner, Art Uni	t 2163	

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DETAILED ACTION

Examiner's Amendment

- 1. An examiner's amendment to the record appears below. Should the changes and /or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.3.12. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 2. The following claim has been amended upon agreement by applicant during a telephone conversation with Mr. Ningning Xu on 06/19/2008.

 Amendments to claims 1, 11, 21, 25-26, and 30; and canceled claims 2-4, 7-9, 12-14, 17-19, 22-24, 27-29, and 31-33:

Claim 1 (Currently Amended):

A method for handling a large data object in a database system implemented in a computer system, said method comprising:

creating a handling structure comprising: at least

a reference to locate the large data object stored in the database system,

the reference being configured to point to a small value data object within the

handling structure itself provided that the small value data object is stored

entirely within the handling structure; [[and]]

information to return an interface to provide access to the large data object in the database system; <u>and</u>

a field having a value indicative of a length of time during which the handling structure is valid.

wherein partial update of the large data object referenced by the handling structure is processed by replacing only a portion of the large data object without updating the large data object in its entirety to avoid without incurring substantial negative impact on overall performance of the database system.

Claims 2-4 (Cancelled)

Claims 7-9 (Cancelled)

Claim 11 (Currently Amended)

A system for handling a large data object in a database system implemented in a computer system, said system_method comprising:

a subsystem <u>comprising a server computer</u> for creating a handling structure comprising: at least

a reference to locate the large data object stored in the database system, the reference being configured to point to a small value data object within the handling structure itself provided that the small value data object is stored entirely within the handling structure; [[and]]

information to return an interface to provide access to the large data object in the database system; and

a field having a value indicative of a length of time during which the handling structure is valid;

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wherein partial update of the large data object referenced by the handling structure is processed by replacing only a portion of the large data object without updating the large data object in its entirety to avoid without incurring substantial negative impact on overall performance of the database system.

Claims 12-14 (Cancelled)

Claims 17-19 (Cancelled)

Claim 21 (Currently Amended)

A computer-readable <u>storage</u> medium comprising computer-readable instructions for handling a large data object in a database system implemented in a computer system, said computer-readable instructions <u>causing the</u> <u>computer system to perform a method</u> comprising <u>instructions for</u>:

creating a handling structure comprising: at least

a reference to locate the large data object stored in the database system,

the reference being configured to point to a small value data object within the

handling structure itself provided that the small value data object is stored

entirely within the handling structure; [[and]]

information to return an interface to provide access to the large data object in the database system [[,]] ; and

a field having a value indicative of a length of time during which the handling structure is valid;

wherein partial update of the large data object referenced by the handling structure is processed by replacing only a portion of the large data object without updating the large data object in its entirety to avoid without incurring substantial negative impact on overall performance of the database system.

Claims 22-24 (Cancelled)

Claim 25 (Currently Amended)

The computer-readable <u>storage medium</u> <u>instructions</u> of claim 21, <u>wherein</u> <u>the method further comprises</u> <u>further comprising instructions for</u>:

converting into a large data object with a corresponding handling structure, a data object having a type from a group of types consisting of text, ntext, and image data types.

Claim 26 (Currently Amended)

The computer-readable storage medium instructions of claim 21, wherein the method further comprises further comprising instructions for converting a data object into a large data object, wherein:

in an event that the data object is of a type, text, the data object is converted into a large data object of a type varchar(MAX);

in an event that the data object is of a type, ntext, the data object is converted into a large data object of a type nvarchar(MAX); and

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in an event that the data object is of a type, image, the data object is converted into a large data object of a type varbinary(MAX),

Claims 27-29 (Cancelled)

Claim 30 (Currently Amended)

The computer-readable <u>storage medium</u> instructions of claim 21, wherein said handling structure is created by a handling structure factory in response to a need for a handling structure.

The Examiner's amendment has been made in order to place the application in a condition for allowance.

Reasons for Allowance

3. The following is an examiner's statement of reason for allowance:

Claims 1, 11, and 21 are considered allowable since the prior made of record and considered pertinent to the applicant's disclosure does not teach or suggest the claimed limitations. Broso (U.S. 6,615,219) or Becker (U.S. 6,301,579) taken individually or in combination, does not teach the claimed invention having a method for handling a large data object in a database system implemented in a computer system, said method comprising creating a handling structure comprising a reference to locate the large data object stored in the database system, the reference being configured to point to a small value data

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object within the handling structure itself provided that the small value data object is stored entirely within the handling structure; a field having a value indicative of a length of time during which the handling structure is valid; wherein partial update of the large data object referenced by the handling structure is processed by replacing only a portion of the large data object without updating the large data object in its entirety to avoid substantial negative impact on overall performance of the database system with a combination of all recitations as defined in claims 1, 11, and 21.

Therefore, claims 1, 5-6, 10-11, 15-16, 20-21,25-26, and 30 are presently allowed.

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Inquiry

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Binh V. Ho whose telephone number is 571 272 8583. The examiner can normally be reached on M-F from 8:00AM - 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don K. Wong can be reached on 571 272 1834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Wilson Lee/ Primary Examiner, Art Unit 2163 Binh V Ho Examiner Art Unit 2163

6/20/08